

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 2004/008855

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' B24B37/00 , B24B37/04 , H01L21/304

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' B24B37/00 , B24B37/04 , H01L21/304

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-187060 A (EBARA CORPORATION) 02.07.2002, Claims, [0042], [0060], fig.1-3 & EP 1197292 A2	1-18
Y	US 5559428 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 24.09.1996, Whole Documents & JP 8-285514 A	1-18
Y	JP 2003-106805 A (EBARA CORPORATION) 09.04.2003, Whole Documents, especially [0011]-[0013], [0017], [0034] & EP 1201365 A2	6, 13
Y	US 6383058 B1 (APPLIED MATERIALS, INC.) 07.05.2002, Whole Documents & JP 2001-257187 A	10
Y	US 5644221 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 01.07.1997, Whole Documents & JP 9-330893 A	11

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent but published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

14.10.2004

Date of mailing of the international search report

02.11.2004

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